



PATENT
Attorney Docket No. A-66566-7
Attorney File No.: 463037-00323

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

O'CONNOR *et al.*

Serial No. 10/823,503

Filed: April 12, 2004

For: *Binding Acceleration Techniques
For the Detection of Analytes*

Examiner: NOGUEROLA, Alexander S.

Art Unit: 1753

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

Date: March 15, 2006

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Brent Yonahara

**INFORMATION DISCLOSURE STATEMENT
AND
STATEMENT OF RELATEDNESS**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. In accordance with 1287 Off. Gaz. Pat. Office 163, 10/19/2004, no copies of U.S. patents and U.S. published applications are enclosed. Copies of foreign patents and non-patent literature, unless indicated otherwise below, are enclosed.

Further, this application is a continuation of the following related U.S. Application – Serial No.09/520,477, filed March 8, 2000 (now U.S. Patent No. 6,761,816, issued July 13, 2004), upon which the instant application relies for its priority

date. Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying substitute for form PTO-1449 marked with the symbol (†). Since these references were previously disclosed by either Applicants or the Examiner in the above-mentioned application, in accordance with 37 C.F.R. § 1.98(d), no copies of these references are enclosed.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

1. U.S.S.N. 0712,792, filed November 13, 2000; U.S.S.N. 11/083,780, filed March 16, 2005;
2. U.S.S.N. 08/873,978, filed June 12, 1997; U.S.S.N. 09/557,577, filed April 12, 2000; U.S.S.N. 11/295,993, filed December 6, 2005; U.S.S.N. 11/343,462, filed January 30, 2006;
3. U.S.S.N. 08/873,597, filed June 12, 1997; U.S.S.N. 10/241,376, filed September 11, 2002;
4. U.S.S.N. 11/283,233, filed November 18, 2005;
5. U.S.S.N. 09/135,183, filed August 17, 1998;
6. U.S.S.N. 09/452,277, filed December 3, 1999; U.S.S.N. 11/208,384, filed August 19, 2005;
7. U.S.S.N. 10/016,416, filed December 10, 2001; and
8. U.S.S.N. 09/245,105, filed January 27, 1999.

Applicants additionally note that the referenced cited on the accompanying substitute for form PTO-1449 as A62, A68, A81, A92, A95, A98, A104, A106-A107, A112-A116, A120-A122, A124-A125, A127-A134, and A130-A164 are published or issued co-pending or related applications.

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

As far as is known to the undersigned, this Information Disclosure Statement is being filed within three months of the filing date of a national application, within three months of the date of entry of the national state in an international application, or before the mailing date of a first Office Action on the merits as set forth in 37 C.F.R. § 1.97(b), and therefore no fee is required.

While no further fee is believed to be due, if this belief is in error, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 (Our Order No. 463037-00323; Our Docket No.: A-66566-7).

Serial No.: 10/823,503

Filed: April 12, 2004

Please direct further questions in connection with this Application to the undersigned at (415) 781-1989.

Respectfully submitted,

DORSEY & WHITNEY LLP

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Attachments: Form SB/08/A-B, substitute for Form PTO-1449
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Substitute for form 1449A-PTO (Modified)		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/823,503
		Filing Date	April 12, 2004
		First Named Inventor	O'CONNOR, Stephen D.
		Art Unit	1753
		Examiner Name	NOGUEROLA, Alexander S.
		Attorney Docket Number	A-66566-7 (463037-00323)
Sheet 1	of 21		

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/A.N./	A1 †	4,704,193	11-17-1987	Bowers et al.	
/A.N./	A2 †	4,707,352	11-17-1987	Stavrianopoulos	
/A.N./	A3 †	4,707,440	11-17-1987	Stavrianopoulos	
/A.N./	A4 †	4,711,955	12-08-1987	Ward, et al.	
/A.N./	A5 †	4,755,458	07-05-1988	Rabbani, et al.	
/A.N./	A6 †	4,787,963	11-29-1988	MacConnell	
/A.N./	A7 †	4,840,890	06-20-1989	Hill et al. — Öhlschlager et al.	
/A.N./	A8 †	4,840,893	06-20-1989	Hill et al.	
/A.N./	A9 †	4,849,513	07-18-1989	Smith, et al.	
/A.N./	A10 †	4,868,103	09-19-1989	Stavrianopoulos, et al.	
/A.N./	A11 †	4,894,325	01-16-1990	Englehardt, et al.	
/A.N./	A12 †	4,908,319	03-13-1990	Smyczek at al.	
/A.N./	A13 †	4,943,523	07-24-1990	Stavrianopoulos	
/A.N./	A14 †	4,952,685	08-28-1990	Stavrianopoulos	
/A.N./	A15 †	4,994,373	02-19-1991	Stavrianopoulos	
/A.N./	A16 †	5,002,885	03-26-1991	Stavrianopoulos	
/A.N./	A17 †	5,013,831	05-07-1991	Stavrianopoulos	
/A.N./	A18 †	5,015,569	05-14-1991	Pontius	
/A.N./	A19 †	5,064,618	11-12-1991	Baker et al.	
/A.N./	A20 †	5,082,830	01-21-1992	Brakel, et al.	
/A.N./	A21 †	5,089,112	02-18-1992	Skotheim et al.	
/A.N./	A22 †	5,098,781	03-24-1992	Minnick et al.	
/A.N./	A23 †	5,100,775	03-31-1992	Smyczek at al.	

Examiner Signature	/Alexander Nogueraola/	Date Considered	04/11/2008
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*EXAMINER: † These references were previously cited in a related application relied upon for an earlier filing date under 35 USC 120 and no copies are submitted in accordance with 37 CFR 1.98(d). Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A-PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/823,503	
			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	2	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/A.N./	A24 †	5,106,751	04-21-1992	Newman	
/A.N./	A25 †	5,126,022	06-30-1992	Soane et al.	
/A.N./	A26 †	5,126,034	06-30-1992	Carter et al.	
/A.N./	A27 †	5,147,607	09-15-1992	Mochida	
/A.N./	A28 †	5,156,810	06-15-1989	Ribi	
/A.N./	A29 †	5,175,269	12-29-1092	Stavrianopoulos	
/A.N./	A30 †	5,180,968	01-19-1993	Bruckenstein et al.	
/A.N./	A31 †	5,194,133	03-16-1993	Clark et al.	
/A.N./	A32 †	5,200,051	04-06-1993	Cozzette et al.	
/A.N./	A33 †	5,241,060	08-31-1993	Englehardt, et al.	
/A.N./	A34 †	5,242,828	09-07-1993	Bergstrom et al.	
/A.N./	A35 †	5,278,043	01-11-1995	Bannwarth, et al.	
/A.N./	A36 †	5,296,375	03-22-1994	Kricka et al.	
/A.N./	A37 †	5,304,487	04-19-1994	Wilding et al.	
/A.N./	A38 †	5,312,527	05-17-1994	Mikkelsen, et al.	
/A.N./	A39 †	5,328,824	07-12-1994	Ward, et al.	
/A.N./	A40 †	5,356,786	10-18-1994	Heller et al.	
/A.N./	A41 †	5,391,272	02-21-1995	O'Daly et al.	
/A.N./	A42 †	5,403,451	04-04-1995	Riviello et al.	
/A.N./	A43 †	5,436,161	07-25-1995	Bergstrom et al.	
/A.N./	A44 †	5,437,999	08-01-1995	Diebold et al.	
/A.N./	A45 †	5,443,701	08-22-1995	Willner et al.	
/A.N./	A46 †	5,449,767	09-12-1995	Ward, et al.	

Examiner Signature	/Alexander Noguerola/	Date Considered	04/11/2008
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			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	3	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

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/A.N./	A47 †	5,472,881	12-05-1995	Beebe et al.	
/A.N./	A48 †	5,476,928	12-19-1995	Ward et al.	
/A.N./	A49 †	5,486,335	01-23-1996	Wilding et al.	
/A.N./	A50 †	5,491,097	02-13-1996	Ribi et al.	
/A.N./	A51 †	5,498,392	03-12-1996	Wilding et al.	
/A.N./	A52 †	5,505,321	04-09-1996	Caron et al.	
/A.N./	A53 †	5,532,128	07-02-1996	Eggers et al.	
/A.N./	A54 †	5,552,270	09-03-1996	Khrapko et al.	
/A.N./	A55 †	5,565,322	10-15-1996	Heller	
/A.N./	A56 †	5,565,552	10-15-1996	Magda et al.	
/A.N./	A57 †	5,571,568	11-05-1996	Ribi et al.	
/A.N./	A58 †	5,573,906	11-12-1996	Bannwarth et al.	
/A.N./	A59 †	5,582,984	12-10-1996	Bieniarz et al.	
/A.N./	A60 †	5,585,069	12-17-1996	Zanzucchi et al.	
/A.N./	A61 †	5,587,128	12-24-1996	Wilding et al.	
/A.N./	A62 †	5,591,578	01-07-1997	Meade et al.	
/A.N./	A63 †	5,593,838	01-14-1997	Zanzucchi et al.	
/A.N./	A64 †	5,595,908	01-21-1997	Fawcett et al.	
/A.N./	A65 †	5,601,982	02-11-1997	Sargent et al.	
/A.N./	A66 †	5,603,351	02-18-1997	Cherukuri et al.	
/A.N./	A67 †	5,605,662	02-18-1997	Heller et al.	
/A.N./	A68 †	5,620,850	04-15-1997	Bamdad et al.	
/A.N./	A69 †	5,632,876	05-27-1997	Zanzucchi et al.	

Examiner Signature	/Alexander Nogueraola/	Date Considered	04/11/2008
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			Application Number	10/823,503	
			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	4	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/A.N./	A70 †	5,632,957	05-27-1997	Heller et al.	
/A.N./	A71 †	5,635,358	06-03-1997	Wilding et al.	
/A.N./	A72 †	5,637,469	06-10-1997	Wilding et al.	
/A.N./	A73 †	5,643,738	07-01-1997	Zanzucchi et al.	
/A.N./	A74 †	5,653,939	08-05-1997	Hollis et al.	
/A.N./	A75 †	5,657,208	08-12-1997	Noe et al.	
/A.N./	A76 †	5,670,322	09-23-1997	Eggers et al.	
/A.N./	A77 †	5,681,484	10-28-1997	Zanzucchi et al.	
/A.N./	A78 †	5,694,932	12-09-1997	Michel	
/A.N./	A79 †	5,700,667	12-23-1997	Marble et al.	
/A.N./	A80 †	5,705,346	01-06-1998	Okamoto et al.	
/A.N./	A81 †	5,705,348	01-06-1998	Meade et al.	
/A.N./	A82 †	5,726,026	03-10-1998	Wilding et al.	
/A.N./	A83 †	5,727,548	03-17-1998	Hill et al.	
/A.N./	A84 †	5,728,352	03-17-1998	Ackley	
/A.N./	A85 †	5,728,532	03-17-1998	Ackley et al.	
/A.N./	A86 †	5,741,700	04-01-1998	Ershov et al.	
/A.N./	A87 †	5,750,015	05-12-1998	Soane et al.	
/A.N./	A88 †	5,755,942	05-26-1998	Zanzucchi et al.	
/A.N./	A89 †	5,756,050	05-26-1998	Ershov et al.	
/A.N./	A90 †	5,759,866	06-02-1998	Machida et al.	
/A.N./	A91 †	5,770,029	06-23-1998	Nelson et al.	
/A.N./	A92 †	5,770,369	06-23-1998	Meade et al.	

Examiner Signature	/Alexander Nogueraola/	Date Considered	04/11/2008
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Sheet	5	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

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/A.N./	A93 †	5,770,721	6-23-1998	Ershov et al.	
/A.N./	A94 †	5,776,672	07-07-1998	Hashimoto et al.	
/A.N./	A95 †	5,780,234	07-14-1998	Meade et al.	
/A.N./	A96 †	5,785,789	07-28-1998	Gagnon et al.	
/A.N./	A97 †	5,795,453	08-18-1998	Gilmartin	
/A.N./	A98 †	5,824,473	10-20-1998	Meade et al.	
/A.N./	A99 †	5,837,859	11-17-1998	Teoule et al.	
/A.N./	A100 †	5,843,767	12-01-1998	Beattie	
/A.N./	A101 †	5,849,486	12-15-1998	Heller et al.	
/A.N./	A102 †	5,851,772	12-15-1998	Mirzabekov et al.	
/A.N./	A103 †	5,945,286	03-31-1999	Krihak et al.	
/A.N./	A104 †	5,952,172	09-14-1999	Meade et al.	
/A.N./	A105 †	5,968,745	10-19-1999	Thorp et al.	
/A.N./	A106 †	6,013,170	01-11-2001	Meade	
/A.N./	A107 †	6,013,459	01-11-2001	Meade	
/A.N./	A108 †	6,020,047	02-01-2000	Everhart	
/A.N./	A109 †	6,051,380	04-18-2000	Sosnowski et al.	
/A.N./	A110 †	6,060,023	05-09-2000	Maracas	
/A.N./	A111 †	6,060,327	05-09-2000	Keen	
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Examiner Signature	/Alexander Nogueroia/	Date Considered	04/11/2008
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			Application Number	10/823,503	
			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	6	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/A.N./	A116 †	6,096,273	11-01-2000	Kayyem et al.	
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Examiner Signature	/Alexander Nogueroia/	Date Considered	04/12/2008
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			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	7	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

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			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	8	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

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	B2 †	EP 0 063 879 A1	11-03-1982	Yale University		
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Examiner Signature	/Alexander Nogueraola/			Date Considered	06/03/2008	

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			Application Number	10/823,503	
			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	9	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

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	B18 †	WO 93/22053 A1	11-11-1993	The Trustees of the University of Pennsylvania		
/A.N./	B19 †	WO 93/22678 A2/A3	1101101883	Massachusetts Institute of Technology		
	B20 †	WO 93/20425 A1	11-25-1993	The Ontario Cancer Institute		
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	B29 †	WO 97/01646 A1	01-16-1997	University of North Carolina		
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/A.N./	B33 †	WO 97/31256 A1	08-28-1997	Cornell Research Foundation		
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	B40 †	WO 98/20162 A2/A3	05-14-1998	Clinical Micro Sensors, Inc.		

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/A.N./	B41 †	WO 98/27229 A1	06-25-1998	The University of Chicago		
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	C1 †	AIZAWA, M. et al. "Integrated Molecular Systems for Biosensors." <i>Sensors and Actuators B</i> , B24 (Nos 1-3) part 1:1-5 (March 1995).	
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Examiner Signature	/Alexander Nogueraola/	Date Considered	06/03/2008
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			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	11	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

NON PATENT LITERATURE DOCUMENTS

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Examiner Signature	/Alexander Noguerola/	Date Considered	06/03/2008
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			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	12	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

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			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	13	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

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			Application Number	10/823,503	
			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	16	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

NON PATENT LITERATURE DOCUMENTS

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	C82 †	KORRI-YOUSSEF, H., et al., "Toward Bioelectronics: Specific DNA Recognition Based on an Oligonucleotide-Functionalized Polypyrrole," <i>J. Am. Chem. Soc.</i> 119:(31) 7388-7389 (1997).	
	C83 †	KRETSCHMANN, E., et al., "Radioactive decay of non radiative surface plasmons excited by light," <i>Z. Naturforsch.</i> 23A:2135-2136 (1968).	
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	C86 †	LEE, et al., "Direct Measurement of the Forces Between Complementary Strands of DNA," <i>Science</i> , 266:771-773 (1994).	
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/A.N./	C90 †	LIVSHITS, M. et al., "Theoretical Analysis of the Kinetics of DNA Hybridization with Gel-Immobilized Oligonucleotides," <i>Biophysical Journal</i> , 71:2795-2801 (1996).	
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	C94 †	MCCORMICK, R., et al., "Microchannel electrophoretic separations for DNA in injection-molded plastic substrates," <i>Anal. Chem.</i> 69(14):2626-2630 (Jul. 1997):	
	C95 †	McGEE, et al., "2'-Amino-2'-deoxyuridine via an Intramolecular Cyclization of a Trichloroacetimidate," <i>J. Org. Chem.</i> , 64:781-785 (1999).	

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	C96 †	MEADE, T. J., "Driving-Force Effects on the Rate of Long-Range Electron Transfer in Ruthenium-Modified Cytochrome c," <i>J. Am. Chem. Soc.</i> , 111:4353-4356 (1989).	
	C97 †	MEADE, T., et al., "Electron Transfer through DNA: Site-Specific Modification of Duplex DNA with Ruthenium Donors and Acceptors," <i>Angew Chem. Int. Ed. Engl.</i> , 34:352 (1995).	
	C98 †	MESTEL, "Electron Highway Points to Identity of DNA," <i>New Scientist</i> , p. 21 (1995).	
	C99 †	MILLAN, et al., "Voltammetric DNA Biosensor for Cystic Fibrosis Based on a Modified Carbon Paste Electrode," <i>Anal. Chem.</i> , 66:2943-2948 (1994).	
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/A.N./	C103 †	MIRKIN et al., "A DNA-based Method for Rationally Assembling Nanoparticles into Macroscopic Materials," <i>Nature</i> , 382:607-609 (1996).	
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/A.N./	C106 †	MUCIC et al., "DNA-Directed Synthesis of Binary Nanoparticle Network Materials," <i>J. Am. Chem. Soc.</i> , 120:12674-12675 (1998).	
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	C110 †	MURPHY, C. J., et al., "Long-Range Photoinduced Electron Transfer Through a DNA Helix," <i>Science</i> , 262:1025-1029 (1993).	
	C111 †	NAKASHIMA, N., et al., "An Ion Gate Lipid Monolayer Membrane on Gold Electrodes," <i>J. Chem. Soc. Chem. Commun.</i> , 4:232-233 (1991).	

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			Examiner Name	NOGUEROLA, Alexander S.	
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	C112 †	NAPIER, M., et al., "Modification of Electrodes with Disubstituted Self-Assembled Monolayers for Attachment and Detection of Nucleic Acids," <i>Langmuir</i> 13(23):6342-6344 (Nov. 1997).	
	C113 †	NAPIER, M.E., et al., "Probing Bionolecule Recognition with Electron Transfers Electrochemical Sensors for DNA Hybridization," <i>Bioconjugate Chem</i> 8:905-913 (1997).	
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/A.N./	C117 †	PARINOV, S., "DNA Sequencing by Hybridization to Microchip octa- and Decanucleotides Extended by Stacked Pentanucleotides," <i>Nucleic Acids Research</i> , 24(15):2998-3004 (1996).	
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/A.N./	C122 †	PROUDNIKOV, D. et al., "Chemical Methods of DNA and RNA Fluorescent Labeling," <i>Nucleic Acids Research</i> , 24(22):4535-4542 (1996).	
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	C124 †	REIMERS, J., et al., "Towards Efficient Molecular Wires and Switches: The Bröcker Ions," <i>BioSystems</i> 35:107-111 (1995).	
	C125 †	RHODES, D., et al., "Helical Periodicity of DNA Determined by Enzyme Digestion," <i>Nature</i> , 286:573-578 (1990).	
	C126 †	RISSER, S. M., et al., "Electron Transfer in DNA: Predictions of Exponential Growth and Decay of Coupling with Donor-Acceptor Distance," <i>J. Am. Chem. Soc.</i> , 115(6):2508-2510 (1993).	

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	C127 †	ROJAS, M., et al., "Molecular recognition at the electrode-solution interface: design, self-assembly, and interfacial binding properties of a molecular sensor," <i>J. Am. Chem. Soc.</i> 117(21):5883-5884 (May 1995).		
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	C133 †	SCHUHMAN, W., et al., "Electron Transfer between Glucose Oxidase and Electrodes via Redox Mediators Bound with Flexible Chains to the Enzyme Surface," <i>J. Am. Chem. Soc.</i> , 113:1394-1397 (1991).		
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/A.N./	C136 †	SLOOP, F., et al., "Metalloorganic labels for DNA sequencing and mapping," <i>New. J. Chem.</i> , 18: 317-326 (1994). (added 4-23-01).		
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	C138 †	STEEL, et al., "Electrochemical Quantitation of DNA Immobilized on Gold," <i>Anal. Chem.</i> , 70:4670-4677 (1998).		
/A.N./	C139 †	STORHOFF et al., "One-Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticles Probes," <i>J. Am. Chem. Soc.</i> , 120:1959-1964 (1998).		
	C140 †	STROBEL, S., et al., "Site-Specific Cleavage of a Yeast Chromosome by Oligonucleotide-Directed Triple-Helix Formation," <i>Science</i> , 249:73-75 (1990).		
	C141 †	SU, et al., "Interfacial Nucleic Acid Hybridization Studied by Random Primer ³² P Labelling and Liquid-Phase Acoustic Network Analysis," <i>Analytical Chemistry</i> , 66(6):769-777 (1994).		
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	C142 †	TAKEDA, H., et al., "Preparation of 1-Alkynyl 2-(Trimethylsilyl)ethyl Sulfides as Thiolate Anion Precursors for Self-Assembled Monolayers," <i>Tetrahedron Letters</i> 39:3701-3704 (1998).	
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/A.N./	C147 †	TIMOFEEV, E. et al., "Methidium Intercalator Inserted into Synthetic Oligonucleotides," <i>Tetrahedron Letters</i> , 37(47):8467-8470 (1996).	
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			Application Number	10/823,503	
			Filing Date	April 12, 2004	
			First Named Inventor	O'CONNOR, Stephen D.	
			Art Unit	1753	
			Examiner Name	NOGUEROLA, Alexander S.	
Sheet	21	of	21	Attorney Docket Number	A-66566-7 (463037-00323)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
/A.N./	C156 †	VELEV et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," <i>The ACS Journal of Surfaces and Colloids</i> , Langmuir, 15(11):3693-3698 (1999).	
	C157 †	WALLACE, J. et al., "Electron Transfer of Yeast Cytochrome C Immobilized On Sam Modified Gold Electrodes" <i>Book of Abstracts, 214th ACS National Meeting</i> , Las Vegas, NV, PHYS-326 (September 7-11 1997).	
	C158 †	WANG, J., et al., "Peptide Nucleic Acid Probes for Sequence-Specific DNA Biosensors," <i>J. Am. Chem. Soc.</i> 116(99):7007-7010 (Aug. 1996).	
/A.N./	C159 †	WATSON et al., "Hybrid Nanoparticles with Block Copolymer Shell Structures," <i>J. Am. Chem. Soc.</i> , 121:462-463 (1999).	
	C160 †	WEBER, et al., "Voltammetry of Redox-Active Groups Irreversibly Adsorbed onto Electrodes. Treatment Using the Marcus Relation between Rate and Overpotential," <i>Anal. Chem.</i> , 66:3164-3172 (1994).	
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